# INDUSTRIAL SECTION

THE DISPATCH FOUNDED 1850. THE TIMES FOUNDED 1886.

WHOLE NUMBER 17,474.

ELECTRICAL DEVELOPMENT

Brief Summary of Industrial En-

terprises Being Put on

Foot in Dixie.

BALTIMORE, MD., February 16 .- In this week's issue the Manufacturer's

Record nates that the movement for

the utilization in electric development of water powers which has made such headway in Virginia, the Carolinas, Georgia and other States, extending,

Georgia and other States, extending, and that three such enterprises are under way for Kentucky streams. One involving the leasing of land and surplus water at Lock Five, on the Green River, will electrically transmit power to Bowling Green, a distance of thirecon miles at several dams on the

power—oil. The most important of recently started work is the effort to-ward developing a deep oil sand in the Southern part of the State, and already an excellent strike has been made in Cumberland county in a 1,-350-foot formation.

Building Elsewhere. Permits at Atlanta, Ga., representing \$479,147; at Birmingham, Ala., \$77,565; at Chattanoga, Tenn., \$94,05; at Nashville, Tenn., \$128,617, and at Louis-

Savannah, Ga., between \$2,000,000 a

city there is under way at a cost of \$50,000 an enlargement of wood man-

tel works, providing for a doubling of In North Carolina. A plant on the river front at Newburn, N. C., including a four-story 52x72-foot digester building, a 36x225

foot paper machine building, and

511,411 Aliens Come to Us.
WASHINGTON, February 16.—A
statement just made public at the Department of Commerce and Labor

pares with a dividend of the same amount in the corresponding quarter last year and with \$10 per share three

months ago. It calls for a payment of \$15,000,000 to the stockholders.

brick boiler-house with equipment

Texas.

/ RICHMOND, VA., SUNDAY, FEBRUARY 17, 1907.

PRICE FIVE CENTS.

### MAINTAIN WATER FOR LYNCHBURG

Wast Amount of Work Nearing Completion to Supply City With Pure Water.

#### WAS A GREAT UNDERTAKING

Has Taken Several Years for the Work and Cost Will Approximate Million.

[Special to The Times-Dispatch.] LYNCHBURG, VA., February 18.— The city of Lynchburg has completed magnificent concrete block dar cross Pediar River, in the northern part of Amherst county, about twentymiles from the city, which is plan ed to yield daily about 8,000,000 gallons of water. The dam has a straight axis, and is about 400 or 500 feet long on the crest, and has a maximum height of about seventy-five feet. It has a spillway 150 feet long, and about eight or ten feet below the crest, which has granite steps from four to 6 feet apart vertically, and is about forty-nine feet wide at base; maximum width

of crest, twelve feet.

It was thought possible that a flow worthe spillway would attain a depth of six feet in extreme flood, which would tend to produce a vacuum under the falling water; provision was made to prevent unbalanced atmospheric to prevent unbalanced atmospheric pressure, which, under extreme flood conditions, would add tons per running foot of dam to the water pressure. This is relieved by the introduction of a horizontal six-inch pipe running through the concrete close to the face of each step both ends of which are each step, both ends of which are en and project beyond face of wing open and project beyond face of wing walls, and outlets are made from the pipe in the face of the masonry. This provision is regarded by the engineers as especially desirable on account of the height of overflow—sixty feet—which is among the highest yet con-

The top surface of the spillway steps

The top surface of the spillway steps and the crest of the dam are made of tough blue granite.

The spillway steps are made of rockface stones, twenty to thirty inchesthick and five to seven feet long, the beds being about the depth of the stone. The stones project into the correte to form a strong bond, and are

stone. The stones project into the con-crete to form a strong bond, and are laid with one-inch joints. The stones in the crest are two and a half feet thick, and are bound together with about one-inch twisted steel pins. On south end of dam is a beautiful gate-house, about eighteen by thirty feet, made integral with dam masonry, and is built above the top of the dam with granite walls and metal roof. The construction of the dam required a to-tal excavation of 4,500 cubic yards rock and about 2,500 cubic yards of dir, and the structure will take about 2,500 nd the structure will take about 2,500 and the structure will take about 2,500 yards cut stone, and ten or twelve tons of twisted steel—the latter for reinforcements in certain places. According to the engineer's report, Pedlar River (across which dam is built) has a minimum flow of about 2,000,000 gallons per day, the channel being about twenty-flye feet wide and two feet days. The sand used on the being about twenty-nye feet who said was two feet deep. The sand used on the work was dug from the bottom of the reservoir about one-half mile above the dam. The sand contained about 20 per cent, of clay, oam and vegetable matter. It was washed, and this amount was reduced to about 3 per cent thus furnishing a clean sand two feet deep. The sand used on the work was dug from the bottom of the reservoir about one-half mile above the dam. The sand contained about 20 per cent, of clay, oam and vegetable matter. It was washed, and this amount was reduced to about 3 per cent, thus furnishing a clean sand for moriar. The washed sand was then shoveled by band into wagons and hauled by teams three-quarters of a mile to storage bins.

The cut stone used in the construction of the dam was secured about two miles above the dam, and was hauled about one mile in wagons, from which it was transferred to flat-cars on a tram-way.

Rashville, Tenn., \$125,617, and at Louis-ville, Ky., \$177,602, indicate consideration in the South in January. This activity is emphasized by the fact that in Waycross, Ga., with a population of \$,500 persons, hundreds of dwellings are being built, additions are being built, additions are being completion. At Tampa, Jackson at tram-way.

and hauled by teams three-quarters of a mile to storage bins.

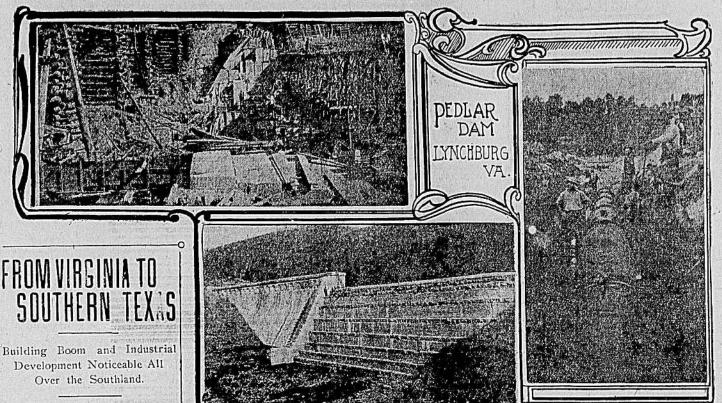
The cut stone used in the construction of the dam was secured about two miles above the dam, and was hauled about one mile in wagons, from on a tram-way.

Up Mountain and Down.

Savannah, Ga., between \$2,000.000 and \$3,000,000 are being spent upon railroad terminals, including the construction of elevators, machine shops fire-proof warehouses and slips. Other Southern developments of the week include the completion of an addition to a foundry plant at Knoxville, Tenn., doubling its capacity at a cost of \$45,000, and enabling it to turn out car wheels and ballast cars. In the same city there is under way at a cost of Cement was delivered by railroad at Buena Vista, Va., and hauled by a steam tram-way to within about one-half mile of the top of Blue Ridge mountains, where storage was provided for several carloads. From this point it was hauled as, fast as relived in warons drawn by two to six ceived in wagons drawn by two to six horses or mules to the top of the mountains, and thence five miles down the mountains, descending about 1,800 feet to the dam. This was a very expensive part of the work, the road being very rough; both wagons and teams gave out after comparatively short service. A considerable number of the work and the services are made as the services of the top to the services. celved in wagons drawn by two to six short service. A considerable num-ber of horses and mules have been lost short service. A considerable number of horses and mules have been lost by accidents. About twenty-five to thirty carloads of cement was kept stored at the dam, this being about two weeks' supply. The buskets are handled and emptied into the concrete forms by boom derricks, which are fastened to crib work twenty feet above the track. The derricks are rigged with wire guys and tackles, and are operated with holsting engines. The shape and dimensions of the concrete form is determined by the resident engineer, Mr. P. B. Winfree, who locates them so that each form shall set at least six days before any adjacent form is made. The average size of a form is about fifty cubic yards, it being required that no form must be larger than can be completed on the day in which it is combrick boller-house with equipment of 400-horse-power, is preparing to begin the manufacture of Manila wrapping paper and of paper pulp for Northern mills, intending to go into the manufacture of writing paper later on. An expenditure of \$50,000 has been authorized for additions to a calleo print works at Wheeling, W. Va.; the capacity of a mill at Anniston, Ala., is to be quadrupled in the manufacture of cotton yarn, twine and rope, and a \$190,000 company has been organized for the construction of a cotton mill, either at Brownwood or at Fort Worth, Texas. must be larger than can be completed on the day in which it is compresed. In getting a foundation for the dam the efficavation was carried to sound rock, and its surface was dressed, cleaned and washed as carefully as possible. Rough quarry stones weighing from 150 to 6,000 pounds, were lowered into the concrete forms, and while suspended were thoroughly washed by a hose. As much of this class of stone was sheed as possible in order to strengthen the work and cheapen the cost. Work was begun in July, 1904. The contract price of the dam alone was \$102,000. The dam was designed by Mr. James H. Fuertes, consulting engineer of New York; Chief Engineer Harry L. Shaner, of Lynchburg, and Mr. P. B. Winfree, resident engineer of dam and pipe-line. Chauncey G. Williams, Esq., of New York; is the contractor. The work was thoroughly inspected from start to finish by resicted from start to finish by resi-

(Continued on Second Page.)

### PURE WATER FROM THE BLUE RIDGE MOUNTAINS LANDS FOR FRUIT REAL ESTATE AND MANY MILES OF PIPE LINES TO SUPPLY LYNCHBURG WITH



## COPPER STOCKS AT \$1,000 A SHARE

Calumet and Hecla Reach the Record of Top-Notch

NEW YORK, February 16 .- Stock of the Calumet and Hecla Copper Company, known as the premier copper concern in the United States, sold yesterday in Boston at \$1,000 a share to Bowling Green, a distance of thirteen miles. At several dams on the
Kentucky River power will be developed for industrial plants at Lexington,
Frankfort, Paris, Richmond and other
points, and the third project looks to
the utilization of power in the Cumberland River for transmission to Nashville, Tenn. In Kentucky, too, there
has been considerable expansion this
month in developing another source of
power—oil. The most important of
recently started work is the effort to-This price is the highest on record at which any copper stock has sold at which any copper stock has sold either in New York or Boston. Its par value is \$25 a share, and if quoted on the percentage basis of the New York Stock Exchange the price would be \$4,000 a share. It closed at

stock sold at 895, which was a record price at that time. In 1901 it sold at 535.

The price of copper, which is now above 25 1-8 cents a pound for lake, has given the Caitmet and Hecla enormous profits in its output. The product is almost pure in its native state, and is so largely sought by consumers that a premium is paid for the "lake" copper.

Its dividends have enriched its tookhalders to such an extent that

stockholders to such an extent that the name Calumet and Hecla is one to conjure with by mining promoters. It has paid as high as \$100 a share

This dividend was paid in 1899. Within the last few weeks the reports are accepted as correct that the Calumet and Hecla is branching out Calumet and Hecla is branching out and is buying an interest in several companies adjacent to its properties. The mines are now several thousand feet under ground, and the cost of operation is becoming higher. Among the mines adjacent, which it is understood the Calumet and Hecla has been buying into, are the Allouez and Centerville.

### CHANGES SYSTEM.

Double-Entry Bookkeeping Will Supplant Antiquated One. WASHINGTON, February 16 .- The

Treasury bookkeeping system is about

Treasury bookkeeping system is about to be reorganized in accordance with recommendations made to the President by the Leep Commission. The single entry plan for keeping accounts has been used in the Treasury for many years. It is about to be supplanted by the double-entry system.

Complaint is made that under the present accounting plan of the Treasury it is impossible to strike balances. In addition, it is alleged that loopholes are left open to fraud on account of the methods used in handling vouchers of disbursing officers. The subject of the Treasury bookkeeping was discussed in a conference held to day between a committee, representing the American Association of Public Accountants and Assistant Secretary Murray, of the Department of Commerce and Labor, the senior member of the Keep Commission.

No House, Whether for Business or Residence, Is Complete Without It.

W. A. Chesterman, who has built some of the most prominent public buildings in Richmond and other cities in this and other States, as well as some of the most costly and handsome private residences, and quite a large number of smaller dwellings, is recognized as one of the most expert connumber of smaller dwellings, is recognized as one of the most expert contractors in the South on sanitation and comfort in buildings. The State Capitol, State Library, Chesterfield Apartment House, Y. M. C. A., and other prominent public buildings and factories in Richmond, are monuments to his skill in construction.

When asked yesterday what he believed to be the most necessary of all modern equipments in a house, Mr. Chesterman said electricity. In speaking of this matter, he said:

"I have not built a house in the last two or three years of any kind without wiring it for electricity. The stride

two or three years of any kind without wiring it for electricity. The stride that this unseen and valuable current has made in a few years has far exceeded that of gas. Just think, in 1823 the inventor of gas would not be allowed to install his invention in New

(Continued on Second Page.)

# IN OLD VIRGINIA

Southwestern Section Peculiarly Adapted to Fruit and Vegetables.

### HOW PROFITS FIGURE OUT

Vegetables and Fruits Readily Find a Good Home Market Among Miners.

[Special to The Times-Dispatch.] STRATTON, VA., February 16.—No loubt that the people of this country have never for one moment though have for fruit-growing and other crops. Almost any crop that can b rown in the temperate zone can be grown in this section. The most im ortant industry in this section at the present, is the growing and market ing of all kinds of fruits, such as apples, pears, peaches, grapes and many kinds of small fruits. There is not finer fruit brown in the world than is produced on the famous Sandy Ridge in Dickenson, Wise and Russel Sandy Ridge in Dickenson, Wise and Russelt counties. The above section is situated near the famous Toms Creek and Lick Creek coal fields, that are inexhaustible in extent. The companies that operate these mines employ thousands of miners each year, and their number is steadily increasing from year to year, and it will be but a short while till this will be a densely populated section. These miners are great consumers of all kinds of fruits and will gladily pay \$1.25 per bushel for apples and from \$2.00 to \$2.50 per bushel for peaches, and fancy price for all small fruits. These people consume hundreds of bushels of apples and peaches and thousands of gallons of berries each senson, and this consumption must increase each year instead of decreasing, for it will be years before all the coal has been mined from these mountains. To give you an illustration of, what could be made by developing this country in the right manner I will give you some figures as given by Mr. Noah W. Rasnick, who has given this subject lifelong thought. The above section is sit

How It Pays.

How It Pays.

"Taken as a basis one acre of land set in apple trees, seventy-two trees to acre, will cost \$75, land included, and the rent of the land ten years will cover the cost of caring for the trees, and the trees will have increased in value \$1 per acre per annum. On the sixth year the trees will have increased in value \$1 per acre per annum. On the sixth year the trees will produce as \$1.55 per bushel will be \$150; on the eighth year they will produce \$50 bushels at \$1.25 per bushel will be \$150; on the tenth year they will produce \$50 bushels at \$1.50 which masced in value to \$720. It would cost \$50 to market the fruit, which would leave a net profit of \$1,540 on a \$75 investment for ten years. The next ten years will produce five crops of fruit at an average of tan bushels per tree, or \$2,500 bushels of apples at \$1.25 per bushel would be \$4,500. Cost of marketing same would be \$1,800. while masced in value \$1,800. while would leave a net profit of \$1,540 on \$1,800. while would leave a net profit of \$2,700 for the next ten years.

This is only a very conservative estimate for one acre, and if any one would start to work now, and set several acres in fruit trees, in ten years, at the first estimate, they would have netted a profit of \$76,500 on fifty acres set in fruit trees, in ten years, at the first estimate, they would have netted a profit of \$76,500 on fifty acres set in fruit trees, in ten years, at the first estimate, they would have netted a profit of \$76,500 on fifty acres set in fruit trees, in ten years, at the first estimate, they would have netted a profit of \$76,500 on fifty acres set in fruit trees are becoming of bearing age, one can set the eld fair grounds and that the property in the deal, and that the purchase of the Broad Street property in the deal, and that the purchase of the Broad Street property in the deal of the Work is to go up in Richmond in ample time for next the same ground in such fruits as a row of peaches between each row of apple trees, and also raspetries, strawber

invest in a paying business could not do better than to invest in fruit'growing in the abovenamed section. Such as a complete failure of a crop of fruit is never known in this section. The fruit that is grown on this mountain is unequaled anywhere in this country in color and flavor. less could not do better than to in-

Sale for Vegetables.

Sale for Vegetables.

Besides this being a fruit-growing country, there can be grown all kinds of vegetables, that will find a ready sale at a fancy price to these miners. Beets, cabbage, turnin, plotatoes, and all like vegetables thrive well in this locality.

This mountain and the surrounding country is covered with all kinds of vausable timber, and the surply of coal is almost inexhausubble in extent. Some of the finest coal in the world is mined from this section, and when the new South and Western Railroad is completed through Dickenson country this section, will then blosson as the rose.

ty this section. Will then blossom as the rose.

The people of this community are kind-hearted and generous, and are ever ready to help any enterprise that will develop the country. There are good free schools, with competent-teachers, and in these mountains, where the people have fresh air to breathe and plenty of sunshing and exercise, there will arise some of the greatest men and women that ever lived in any country. I am glad to greatest men and women that ever lived in any country. I am glad to see this country prospering as it does, and hope that in the next ten years there will be some of the best fruit farms in this country that can be found anywhere, and that this may be a place of push and energy.

Would Make Public Blame.

NEW ORLEANS, February 16.—As a preventive for railroad accidents, com-plete publicity is suggested by Julius plete publicity is suggested by Julius Kruttschnitt, director of maintenance and operations of the Harriman lines and vice-president of the Southern Facilite. In an interview to-day he said.

"The persons responsible for accidents, whether officers or laborers, should be known to the public, in order that they may be made to feel the weight of popular displeasure.

"We must bring about a closer observance of the rules governing the operation of the railroads, and a greater respect for danger signals than we now get from our employes. This can be done only by the widest publicity of accidents."

are going to build a clabhouse on it, and it is said the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have already been drawn. The house, will be an up-to-date, modern structure, and the plans have all the said have a plans have all the said have a plan have a going to said the plans have a given in

# BUILDING NEWS

Increased Activity-More Inquiry, for High-Priced and Well-Located Realty.

### HOUSES WANTED BY MANY

Several Large Deals Made That Seem to Mean Great Industrial Development.

The real estate men have not been especially busy during the past week, but they have not been idle. A number of small sales have been consummated and considerable effort has been made to move some of the larger deals that are said to be "on the string" up to a point neurer to consummation. It may be that some of these latter efforts have been successful, very likely they have been successful, very few parer and will not nillow their left hands to know just what the right limb is doing. If they are that particular as regards the information that goes from one side of the body to the other, it is not hard for the radder to realize how hard it is for a newspaper man, whose business it is to tell the public all he knows, to get any definite informations direct from the men who are in charge of real estate deals. They simply will not tell about them until the deals are entirely closed and the papers have gone to record during the past week, and none that tell the tale of heavy transactions. This shows that all of the sales for a week past have been on the small order, but that is not necessarily ovidence that there has been nothing doing. Great transactions may possibly have reached the finishing touches, practically, but yet not reached the deod-recording point.

In fact, there has been nothing doing. Great transactions may possibly have reached the finishing touches, practically, but yet not reached the deod-recording point.

In fact, there has been mothing doing. There is something going on behind the closed doors of several real estate agents who know about these things will not tell all th

and in whose name it now stands and in whose name it now stands, was again very reticent, and refused to divulge a single thing. He only gave a smile when asked for a direct answer to the horse show interrogation point. The smile may have meant yes or no, but there was a kind of wrinkle to it that seemed to say to the news man who was doing the questioning that the horse show guess was pretty good. Anyhow, Mr. Berry, did not positively deny the rumor.

### Another Unfathomed Deal.

Another Unfathomed Deal.

Among the larger deals of the past week was the purchase by Mr. E. T. D. Myers, Jr., of a tract of land lying on the Boulevard. A deed that was recorded only yesterday revealed this transaction. The deed conveys from John P. Branch to E. T. D. Myers, Jr., four and one-fifth acres of land, and the consideration named is \$7,327.

The property less near the intersection of the Boulevard with Broad Street Road, not far from the Richmond, Fredericksburg and Potomac tracks.

The property horders the Broad Street Road for a distance of 22 feet, skirts the Boulevard of £24 feet, and constitutes the central body of the triangle formed by the intersection of the Boulevard, the Broad Street Road and the Richmond, Fredericksburg and Potomac tracks.

Mr. Myers declines to say for what purpose the property have been acquired, but the general impression is that an industrial enterprise is wrapped up in the deal.

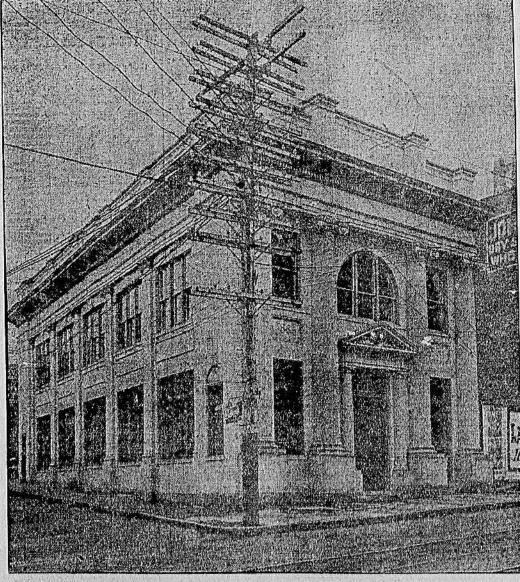
the deal.

Costly Clubhouse.

The fact that the Jefferson Club has practically bought a splendid property at the southwest corner of Allison Avenue and Grace Street has already been nue and Grace Street has already been published in this paper, and the active members of that club have been importuned all the week to tell what they are going to do with it. Of course iney are going to do with it. Of course iney are going to build a clabhouse on it, and it is said the plans have already been drawn. The house will be an up-to-date, modern structure, and the present calculation is that it will cost something like \$50,000, possibly as much as \$75,000. This magnificent building is to go up on the corner diagonally opposite the handsome residence of Mr. J. B. Mesby.

The building operations in the West Find and along the streets and ayonuse of the Lee District seem to know no end. A well-known real estate man is The Times-Dispatch man's authority for the statement that with the open-

### NEW HOME OF PETERSBURG BANK



This is the new home of the National Bank of Petersburg, Va., at Syenmore and East Tabb Streets. The boved into this building on Monday, February 4th. The upper floor is occupied by the legal department of Atlantic Coast Line Railroad Countary.